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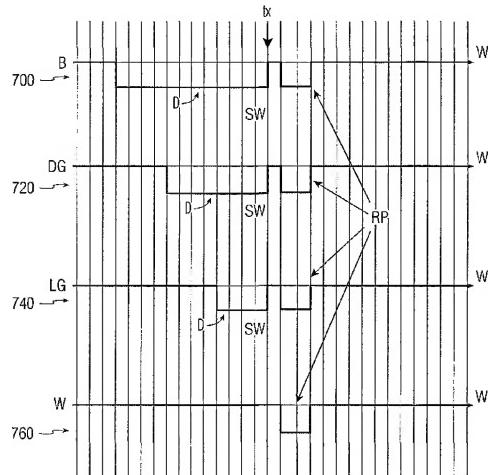
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(54) Title: AN ELECTROPHORETIC DISPLAY WITH UNIFORM IMAGE STABILITY REGARDLESS OF THE INITIAL OPTICAL STATES



(57) Abstract: Respective voltage waveforms (700, 720, 740, 760; 800, 820, 840, 860, 900, 920, 940, 960; 1000, 1020, 1040, 1060) are provided for driving respective portions, e.g., pixels, of a bi-stable display (310) such as an electrophoretic display, to a common final optical state. Each waveform includes a driving pulse (D) for driving the respective display portion from a different initial optical state to substantially the common final optical state. The respective voltage waveforms further include at least one re-addressing pulse (RP, RP1, RP2, RP3), which has substantially the same pulse shape in each of the waveforms. The pulse shape may include pulses of alternating polarity, which have substantially the same energy. The re-addressing pulses adjust the particle configurations of the respective display portions such that each display portion has a uniform brightness decay versus unpowered holding time characteristic (1100, 1110, 1120, 1130).

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*